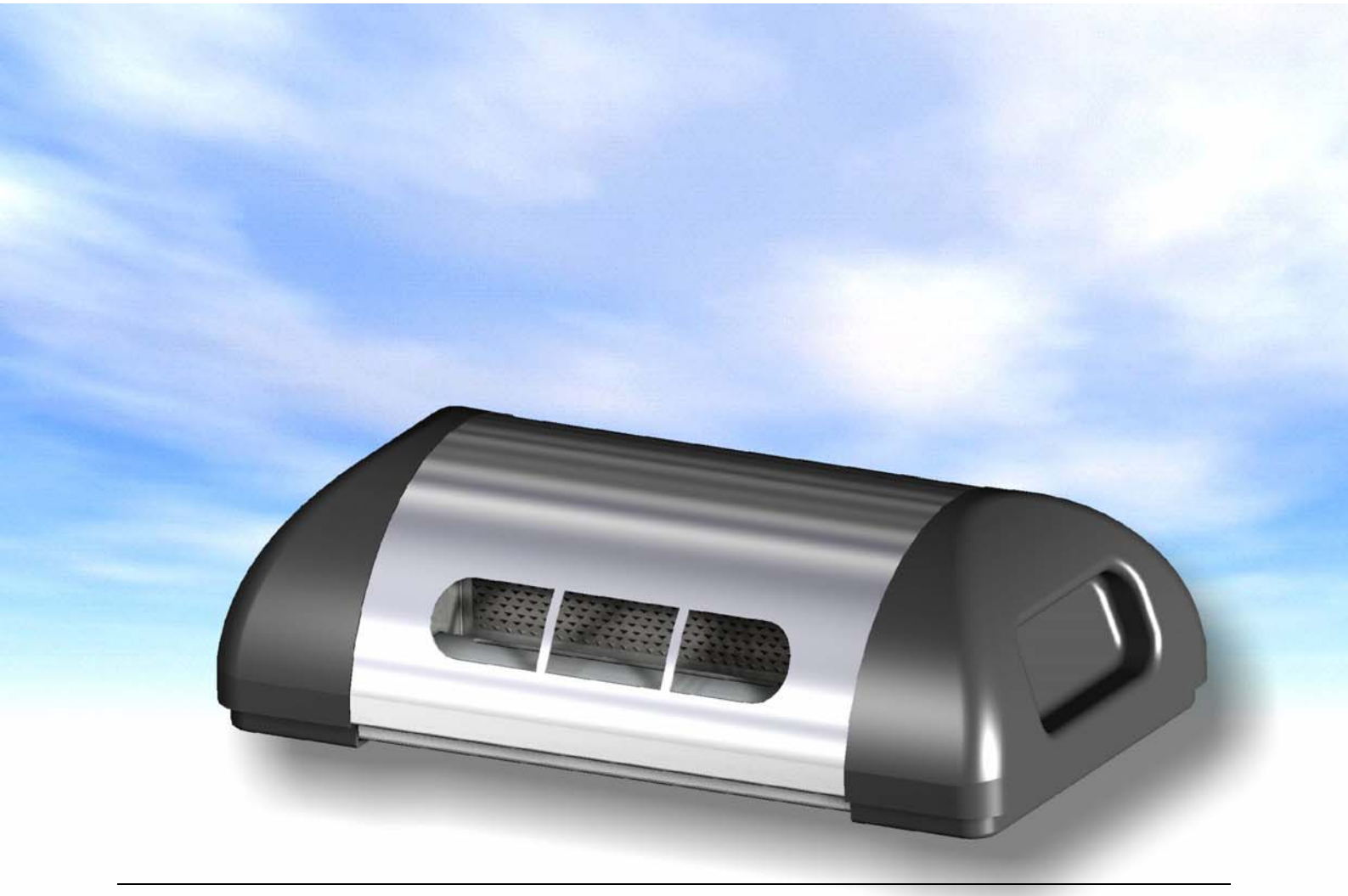
Pego®
Humidifiers

LEGGERE E CONSERVARE



FAN-ASSISTED DISTRIBUTOR HEADS

EASY STEAM

USE AND MAINTENANCE MANUAL

Thank you for choosing the PEGO EASYSTEAM fan-assisted distributor head.

Please read this manual thoroughly: doing so will allow you to carry out correct installation of the unit and use it properly.
It is therefore advisable to store the manual near the fan-assisted distributor head installation point.

How to read this manual.

To simplify and aid comprehension the text is accompanied by the following symbols:

Indicates a section of text that must be read carefully.

Indicates tasks that need to be carried out with the utmost care and attention so as to prevent damage to the distributor head, injury or malfunctions.

Indicates an action that is forbidden and which could cause damage to the distributor head, injury or malfunctions.

Indicates a useful tip.

Indicates that the PEGO 2 HUMIDIFIER DIVISION assistance centre (contact details on back of this handbook) should be contacted.

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CHAP. 1 INTRODUCTION

1.1 GENERAL

The Pego Easysteam fan-assisted distributor head has been designed to allow direct humidification of indoor environments without the need for air ducts or evaporators; ventilation can be achieved by fitting the head directly on the humidifier or placing it in a 'remote', wall-mounted position.

1.2 WARRANTY TERMS AND CONDITIONS

Accessories of the **EASYSTEAM** product line are guaranteed against manufacturing defects for a 24-month period that begins on the date of delivery. Improper performance caused by tampering, impact/knocks, improper installation or utilisation with equipment not belonging to the **EASYSTEAM** line shall automatically render the warranty null and void. It is strongly recommended that you observe all instructions/information regarding the technical characteristics of the device.

Any modifications made to wiring and/or internal components or any tasks carried out in a way that fails to comply with the information/instructions in this manual shall not only render the warranty null and void immediately but may also lead to malfunctions, irreparable damage, serious injury or put persons/objects in danger.
PEGO S.r.l. declines any responsibility for possible errors or inaccuracies written in this manual as a result of printing or transcription errors.
PEGO S.r.l. reserves the right to modify its products as it deems necessary without altering their main characteristics.
Each new release of a PEGO user manual replaces previous ones.

1.3 OPERATING PRINCIPLE

EASYSTEAM fan-assisted distributors mix the steam produced by the humidifiers with an airflow generated by a cross-flow fan; this mixture is then introduced into the indoor environment at a speed and rate proportional to the size of the humidifier, thus ensuring an optimal ratio of humidification / efficiency loss caused by the condensation effect.
Ventilation occurs simultaneously with steam production; the shape of the head ensures that the temperature of the outgoing air is less than 50°C and the grill pattern prevents direct introduction of condensation water droplets into the environment.

1.4 FAN-ASSISTED HEAD ID CODES

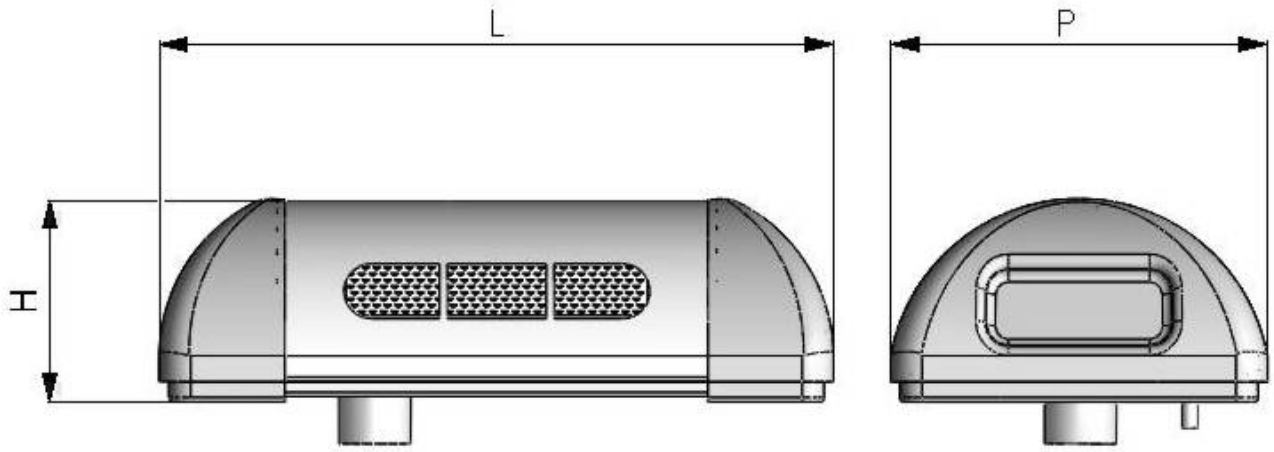
400UMFAN100 fan-assisted head for Pego easysteam humidifiers ES3-M, ES6

400UMFAN150 fan-assisted head for Pego easysteam humidifiers ES12, ES24

1.5 TECHNICAL DATA

TECHNICAL DATA	400UMFAN100	400UMFAN150
STEAM VENTILATION CAPACITY (in KG/h)	Max 6	Max 24
POWER SUPPLY	220V 50 Hz	220V 50 Hz
POWER (kW)	0.20	0.28
CONTROL TYPE	EASYSTEAM	
STEAM INLET DIAMETER (mm)	40	40
CONDENSATE DISCHARGE OUTLET DIAMETER (mm)	10	10
AIRFLOW RATE	100 m^3 /h	150 m^3/ h

1.6 OVERALL DIMENSIONS



MODEL	L	P	H
400UMFAN100	430 mm	240 mm	130 mm
400UMFAN150	430 mm	240 mm	130 mm

1.7 IDENTIFICATION DATA

The unit described in this manual has, on its side, an ID plate showing all the relevant identification data:

- Name of Manufacturer
- Unit model
- Serial number
- Power
- Air capacity

1.8 ITEMS SUPPLIED AS STANDARD

EASYSTEAM fan-assisted distributor heads come complete, for purposes of assembly and use, with:

N° 1 connector with an external diameter of 40 mm, for steam inlet

N° 1 connector with an external diameter of 10 mm, for condensate discharge

N° 1 head/humidifier connection hose

N° 1 humidifier cylinder connection flange

N° 1 condensation discharge pipe

N° 3 steam and condensate discharge connection seal clips

N° 1 user's manual

N° 1 wall bracket (OPTIONAL)

CHAP. 2 INSTALLATION

2.1 GENERAL INSTALLATION INFORMATION

1. Install the device as close as possible to the area where the steam is to be distributed (i.e. in a position with as short a steam hose as possible). Do not exceed a distance of 5 metres.

2. Install the unit with Pego Easysteam humidifiers only.

3. Install the unit so it is level in both the transverse and longitudinal planes.

4. In the event of remote (wall-mounted) installation, make sure no water traps or kinks are created on the steam inlet hose.

5. In the event of remote (wall-mounted) installation make sure the condensate recovery pipe is not kinked.

6. When installing the device make sure the airflow is not directed at electronic equipment or other equipment sensitive to high humidity.

2.2 STANDARD INSTALLATION OF DISTRIBUTOR HEAD

1. Remove the fan-assisted distributor head from the packaging, keeping the device vertical. Remove the protective nylon bag and check that the device is in good condition.

2. Replace the humidifier steam outlet flange (diameter 25 mm) with the supplied flange (Fig. 1) (diameter 40 mm) (not necessary for ES24 humidifiers).

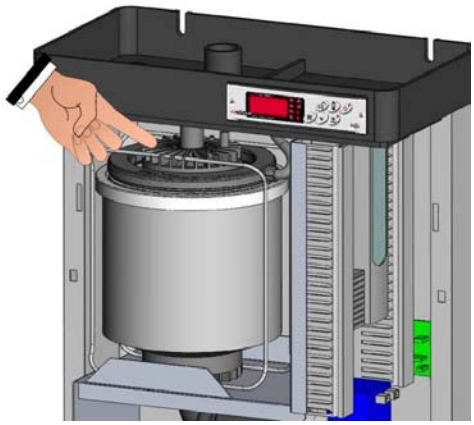


Fig. 1

3. Check that the humidifier is level both transversely and longitudinally; correct any tilt.

4. Connect the steam hose to the inlet (diameter 40 mm)(Fig.2) of the head and the condensate discharge hose to the outlet (with diameter 10)(Fig.3).

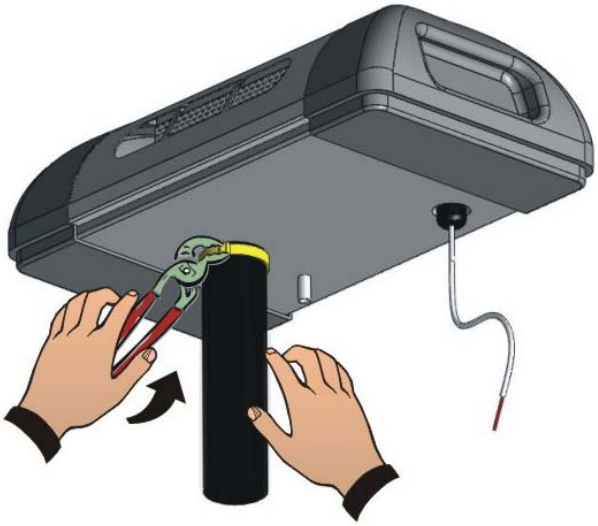


Fig.2

Fig.3

5. Fit the fan-assisted distributor head on the humidifier, positioning it on the upper part of the latter; no screws are required, just press-lock it into place.(Fig. 4)

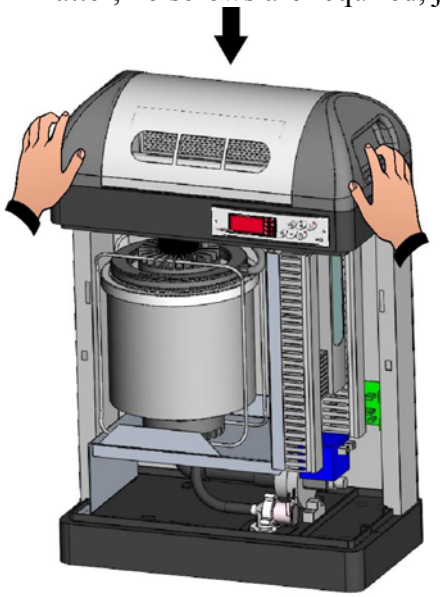


Fig. 4

6. Connect the steam hose to the humidifier flange.(Fig. 5)

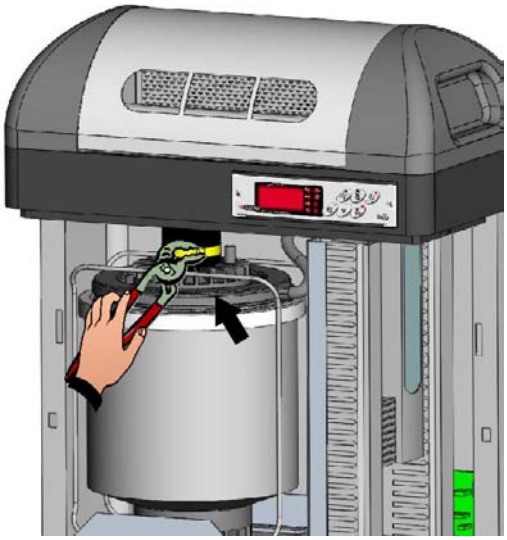


Fig. 5

7. Make sure the condensate discharge hose is addressed to the humidifier outlet.

8. Pass the fan-assisted distributor head power lead through the Slim flat cable passage that connects with the Master 100.

2.3 REMOTE INSTALLATION OF DISTRIBUTOR HEAD

1. Remove the fan-assisted distributor head from the packaging, keeping the device vertical. Remove the protective nylon bag and check that the device is in good condition.

2. Replace the humidifier steam outlet flange (diameter 25) with the supplied flange (Fig.1)(diameter 40) (not necessary for ES24 humidifiers).

3. Fix the support bracket to the wall: make sure it is level both transversely and longitudinally (Fig.6)

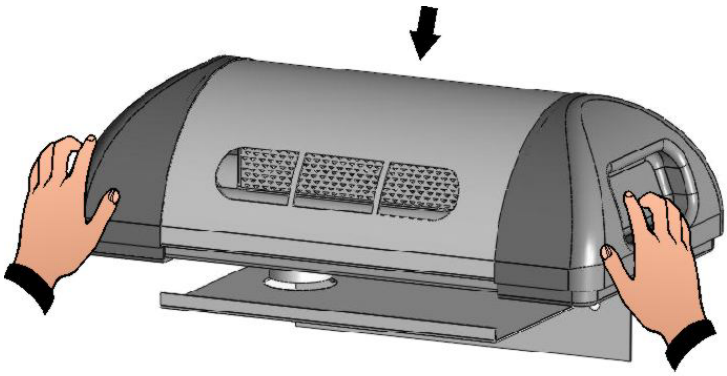


Fig. 6

4. Connect the steam hose to the inlet (diameter 40) (Fig.2) of the head and the condensate discharge hose to the outlet (with diameter 10)(Fig.3)

5. Connect the steam hose to the humidifier flange.

6. Make sure the condensate discharge hose is directed towards the humidifier discharge or a ground-level drainage point.

7. Pass the fan-assisted distributor head power lead through the Slim flat cable passage that connects with the Master 100.

2.4 ELECTRICAL CONNECTION

Connect the lead to terminals 62 and 63 on the humidifier terminal block.

CHAP. 3 SWITCHING

3.1 INITIAL START-UP

At this point the fan-assisted distributor head is ready for use and is fully autonomous.
When the humidifier receives consensus for steam production, the head starts to generate the airflow with the requested quantity of steam.

CHAP. 4 TROUBLESHOOTING

4.1 TROUBLESHOOTING

FAULT	CAUSE	ACTION TO BE TAKEN
The humidifier generates steam but the head does not produce an outflow	Cross-flow fan stopped	Check for proper connection and power supply
The humidifier generates steam but the head does not produce an outflow	Cross-flow fan stopped despite proper power supply	Check that cross-flow fan is working properly
The head sprays drops of condensate outwards into the room	Head not levelled properly	Check for level installation
The head sprays drops of condensate outwards into the room	Rear intake obstructed	Clean intake
	Should you encounter any other faults not listed in the table please contact the PEGO 2 HUMIDIFIER DIVISION assistance centre	

CHAP. 5 APPENDICES

5.1 EC DECLARATION OF CONFORMITY

COSTRUTTORE / MANUFACTURER
PEGO SRL Via Piacentina,6b 45030 Occhiobello (RO) - ITALY -

DENOMINAZIONE DEL PRODOTTO / NAME OF THE PRODUCT
MOD.: FAN ASSISTED DISTRIBUTOR HEAD SERIES ES 24.

IL PRODOTTO E' CONFORME ALLE SEGUENTI DIRETTIVE CE/ THE PRODUCT CONFORMS WITH THE REQUIREMENTS OF THE FOLLOWING EUROPEAN DIRECTIVES:

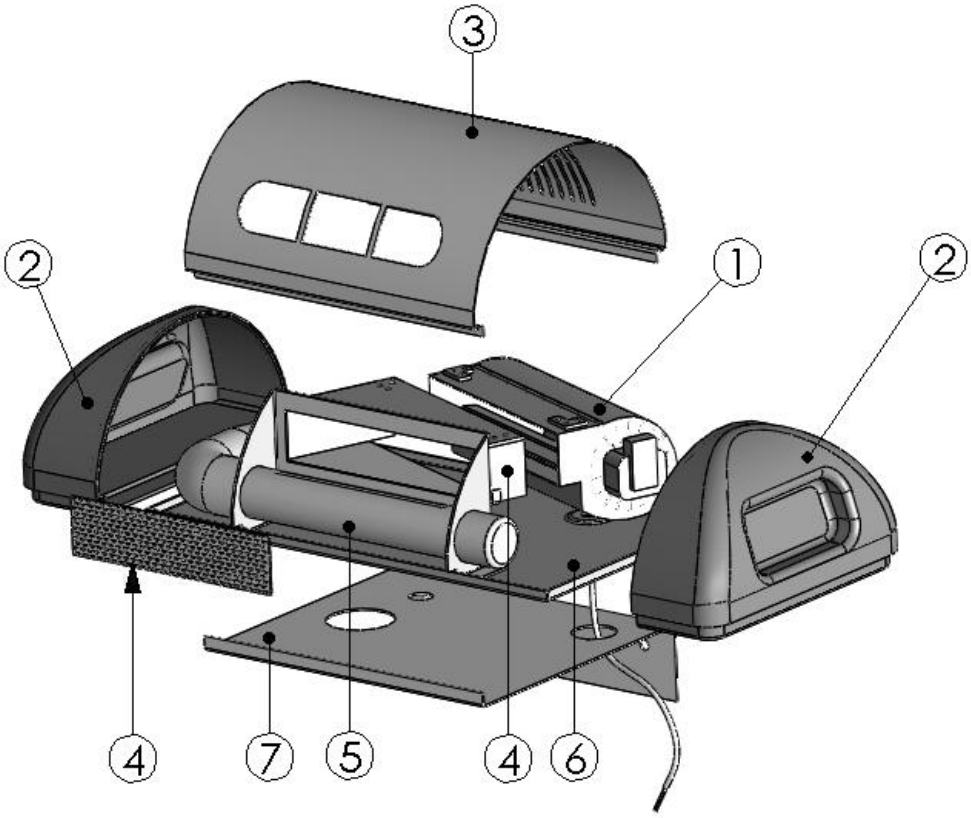
2006/95/CE	**Direttiva del Consiglio per l'unificazione delle normative dei Paesi CEE relativa al materiale elettrico destinato ad essere utilizzato entro certi limiti di tensione e successive modificazioni**
2006/95/EC	EC Directive on unification of laws of the Member States relating to electrical equipment employed within certain voltage limits and subsequent amendments
89/336 CEE	**Direttiva del Consiglio per l'unificazione delle normative dei Paesi CEE relativa alla compatibilità elettromagnetica e successive modificazioni**
89/336 EEC	EC Directive on unification of the laws of the Member States relating to electro-magnetic compatibility and subsequent amendments
93/68 CEE	**Direttiva del consiglio per la marcatura CE del materiale elettrico destinato ad essere utilizzato entro taluni limiti di tensione.**

LA CONFORMITA' PRESCRITTA DALLE DIRETTIVE E' GARANTITA DALL' ADEMPIMENTO A TUTTI GLI EFFETTI DELLE SEGUENTI NORME:
CONFORMITY WITH THE REQUIREMENTS OF THESE DIRECTIVES IS TESTIFIED BY COMPLETE ADHERENCE TO THE FOLLOWING STANDARDS:

NORME ARMONIZZATE / HARMONIZED EUROPEAN STANDARDS

EN 61000-6–1 EN 61000-6–3 EN 60335 – 1

5.2 EXPLODED DIAGRAM



Ref.	Description
1-	Cross-flow fan
2	Side heads in ABS
3	Stainless steel cover
4	Internal fixing partitions
5	Distributor lance
6	Condensate containment / collection tank
7	Separate installation support bracket (optional)

NOTES

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Dealer:

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